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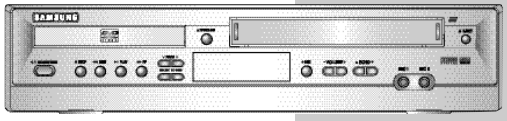
SAMSUNG

DVD-VCR

DVD-V90K

Instruction Manual



www.samsungvcr.com

VHS
PAL/NTSC

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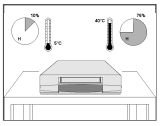
Symbols

① = Step number

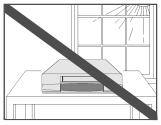
Safety Instructions

The following illustrations represent precautions.

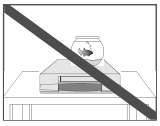
The lightning bolt is a warning sign alerting you to dangerous voltage inside the product.
DO NOT OPEN THE DVD-VCR. Refer to service personnel.



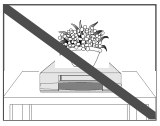
Do NOT expose the DVD-VCR to extreme temperature conditions (below 5°C and above 40°C) or to extreme humidity conditions (less than 10% and more than 75%).



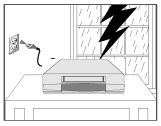
Do NOT expose the DVD-VCR to direct sunlight.



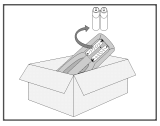
Do NOT expose the DVD-VCR to any liquids.



Do NOT place any objects on the DVD-VCR or remote control.



During a storm and/or lightning, unplug the DVD-VCR from the mains socket and aerial.



If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.

THIS DEVICE IS NOT FOR USE IN INDUSTRIAL ENVIRONMENTS

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Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos :

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. • Various screen and audio functions can be easily selected through the on-screen menu.
		8 Cm	Single-sided 80 min. Double-sided 160 min.	
VIDEO-CD	Audio + Video	12 Cm	74 min.	• Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 Cm	20 min.	
AUDIO-CD	Audio	12 Cm	74 min.	• An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 Cm	20 min.	

* DO NOT play CD-ROM, CD-I and DVD-ROM in this player!
(CDGs play audio only, not graphics.)

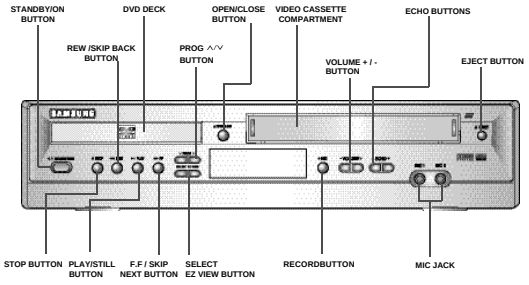
Disc Markings

• Playback Region Number	• PAL colour system in U.K, France, Germany, etc.	• NTSC broadcast system in USA, Canada, japan, South Korea, etc.	• Dolby Digital disc	• Stereo disc	• Digital Audio disc	• DTS disc

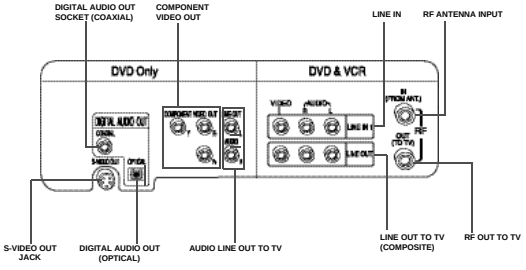
Playback Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is described on the rear panel of the player.

Front View of the DVD-VCR



Rear View of the DVD-VCR



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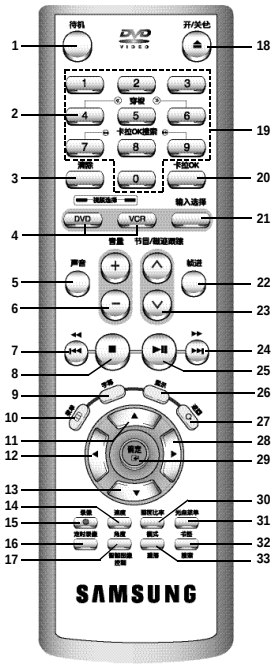
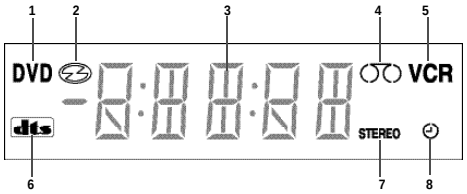
Infrared Remote Control



1 待机(STANDBY/ON)
2 穿梭 (SHUTTLE<</>>)
3 清除(CLEAR)
4 DVD, VCR SELECT
5 声音 (AUDIO)
6 音量 (VOLUME +/-)
7 REWIND SKIP BACK
8 STOP
9 字幕 (SUBTITLE)
10 菜单 (MENU)
11 UP
12 LEFT
13 DOWN
14 速度 (SPEED SP/LP)
15 录像 (RECORD)
16 定时录像 (TIMER)
17 角度 (ANGLE)
智能图像控制 (IPC)
18 开/关仓 (OPEN/CLOSE)
19 0~9
20 卡拉OK (KARAOKE)
21 输入选择 (INPUT SEL.)
22 帧进 (F.ADV/STEP)
23 节目/磁迹跟踪 (PROG TRK)
24 FAST-FORWARD
SKIP NEXT
25 PLAY/STILL
26 显示 (INFO.)
27 返回 (RETURN)
28 RIGHT
29 确定 (OK)
30 画面比率(EZ VIEW)
31 光盘菜单(DISC MENU)
32 书签 (MARK)
33 搜索 (SEARCH)
模式 (MODE)
重播 (REPEAT)

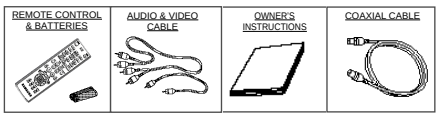
Display Indicators



1 The DVD Deck is active
2 A DVD, CD, VCD, or SVCD is loaded
3 The time, counter position, time remaining or current deck status is displayed
4 VHS tape is inserted
5 The VCR Deck is active
6 A DVD with a DTS soundtrack is loaded
7 The Hi-Fi track of a VHS tape is playing (The current TV show or video is broadcast in Stereo)
8 A Timer Recording is programmed or in progress.

Accessories

You have just purchased a SAMSUNG Video Cassette Recorder (DVD-VCR).
Together with your DVD-VCR, you will find the following accessories in the box.



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Deciding How to Connect DVD-VCR

You must take into account various factors when connecting audio or video systems:

- ***Types of connectors available on your systems***
- ***Systems connected permanently to the DVD-VCR (satellite receiver for example) or temporarily (camcorder for example)***

Your DVD-VCR is equipped with the following connectors.

Connector	Location	Type	Direction	Recommended Use
MIC JACK	Front	MICJACK	In	◆ MIC
Audio output	Rear	Audio RCA	Out	◆ Audio out (DVD only)
LINE	Rear	Audio/Video RCA	In/Out	◆ Television Other VCR
COMPONENT output	Rear	RCA	Out	◆ COMPONENT out (DVD only)
S-VIDEO output	Rear	S-JACK	Out	◆ S-Video out (DVD only)
Digital AUDIO output	Rear	Optical coaxial	Out	◆ Digital Audio out (DVD only)
OUT TO TV	Rear	75 Ω coaxial	Out	◆ Television
IN FROM ANT.	Rear	75 Ω coaxial	In	◆ Aerial ◆ Cable television network ◆ Satellite receiver

☛ Whenever you connect an audio or video system to your DVD-VCR, ensure that all elements are switched off.

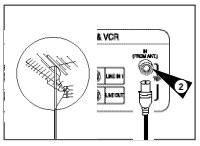
Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

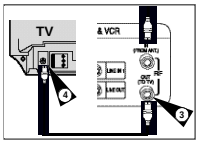
Connecting DVD-VCR to the TV using the Coaxial Cable

To receive television programmes a signal must be received from one of the following sources:

- ***An outdoor aerial***
- ***An indoor aerial***
- ***A cable television network***
- ***A satellite receiver***

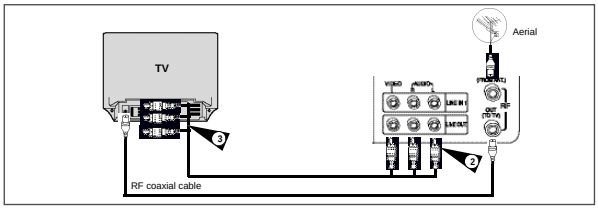
☛ Make sure that both the television and the DVD-VCR are switched off before connecting the cables.





1	Remove the aerial or network input cable from the television.
2	Connect this cable to the 75Ω coaxial socket marked ⊓⊓ on the rear of your DVD-VCR.
3	Plug the coaxial cable supplied into the TV socket on your DVD-VCR.
4	Plug the other end of the coaxial cable into the connector previously used for the aerial on the television.
5	To obtain better quality pictures and sound on your television, you can also connect your DVD-VCR to the television via the RCA cable (see section below) if your television is equipped with this type of connection.

Connecting DVD-VCR to the TV using the RCA Cable



ou can connect your DVD-VCR to the television using the RCA cable if the appropriate input is available on the television. You thus:

- ***Obtain better quality sound and pictures***
- ***Simplify the setting up procedure of your DVD-VCR***

☛
- Regardless of the type of connection chosen, you must always connect the coaxial cable supplied. Otherwise, no picture will be visible on the screen when the DVD-VCR is switched off.
- Make sure that both the television and the DVD-VCR are switched off before connecting the cables.

1	Connect the coaxial cable as indicated in the above section.
2	Connect one end of the RCA Audio/Video cable to the Video output and Audio L, R output socket on the rear of the DVD-VCR.
3	Plug the other end into the appropriate connector on the television.

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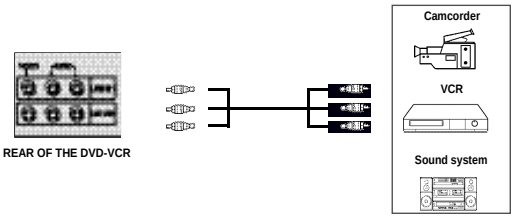
Connecting DVD-VCR to a Satellite Receiver or Other Equipment

You can connect other audio and/or video equipment to your DVD-VCR in different ways. The following illustrations give a few examples of the connection possibilities.

➢ The RCA input/output connectors on the rear of the DVD-VCR are used for equipment, such as camcorders, VCRs or sound systems.

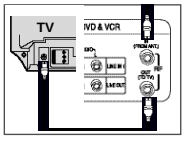


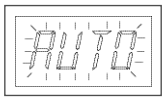
Plug & Auto Set up

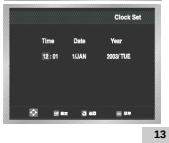
Your DVD-VCR will automatically set itself up when it is plugged into the mains for the first time. TV stations will be stored in memory. The process takes a few minutes. Your DVD-VCR will then be ready for use.

1	Connect the coaxial cable as indicated on page 11. (Connecting Your DVD-VCR to the TV Using the Coaxial Cable)
2	Plug the DVD-VCR into the mains. Result: The Auto Setup is started automatically.
3	**Set menu Language** Place the selection arrow next to your desired Language, then press the **确定(OK)** button.
4	Press ◄ or ► to select the hour, minutes, day, month and year. Result: The option selected highlight.
5	Press the ▲ or ▼ buttons to increase or decrease the value. Result: The day of the week is displayed automatically. ➢ You can hold the ▲ or ▼ buttons down to scroll more quickly through the values.
6	On completion, press **返回**(RETURN) to exit the menu.

➢ Auto preset can be performed by pressing ■ (STOP) on the VCR continuously for 5 seconds or more with no tape inserted.







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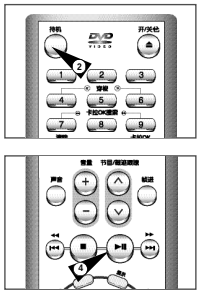
Tuning Your Television for the DVD-VCR



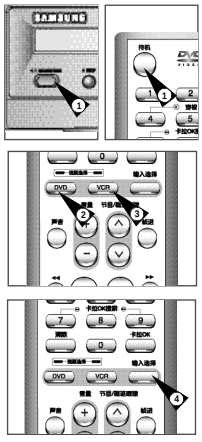
You must tune your television for the DVD-VCR only if you are <u>not</u> using a RCA cable

➢ To view pictures from your DVD-VCR when a RCA cable is used, the television must be set to the audio/video mode (AV).

1	Switch on the television.
2	Switch on the DVD-VCR by pressing **待机(STANDBY/ON)** on the front of the DVD-VCR or **待机(STANDBY/ON)** on the remote control.
3	Select a programme position on the television to be reserved for use with your DVD-VCR.
4	Insert the video cassette in the DVD-VCR. Check that the DVD-VCR starts reading the cassette; if not, press ►II button.
5	Start a scan on your television or set the television to UHF channel 38.
6	Fine tune the television until the pictures and sound are obtained clearly.
7	If you cannot find the pictures and sound, or there is interference from nearby channels, it may be necessary to change the setting of the DVD-VCR output channel (see Setting the DVD-VCR Output Channel on page 22 and Problems and Solutions on page 67).
8	When the picture and sound are perfectly clear, store this channel at the desired programme position on the television. <u>Result</u>: That programme is now reserved for use with your DVD-VCR.

Deck Control Keys

The DVD-VCR uses one set of controls to operate <u>both</u> decks. The following keys are helpful in successfully controlling each deck.



1 **待机(STANDBY/ON) Button**

Press the **待机(STANDBY/ON)** button on the remote control or the **待机(STANDBY/ON)** button on the front panel to turn on the DVD-VCR.

2 **DVD Button**

Press the DVD button on the remote control when you want to control the DVD deck.

- ◆ The DVD indicator will light on the Front Panel Display to show that the DVD deck is selected.

3 **VCR Button**

Press the VCR button on remote control when you want to control the VCR deck.

- ◆ The VCR indicator will light on the Front Panel Display to show that VHS deck is selected.

4 **输入选择(INPUT SEL.) BUTTON**

Press the **输入选择(INPUT SEL.)** button repeatedly to cycle through all of your input sources, including the Tuner (PR##), Line (rear AV input).

- • Input select is only available when the VCR deck is selected.

➢ **Before using the VCR operation of 18~42 pages, press the VCR button on the remote control to select VCR mode.**

Before using the DVD operation of 43~65 pages, press the DVD button on the remote control to select and watch DVD.

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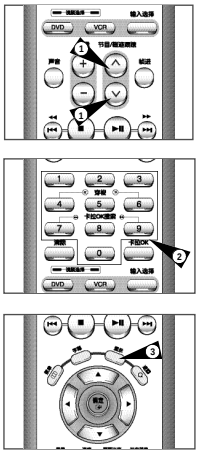
Basic TV Tuner Operations



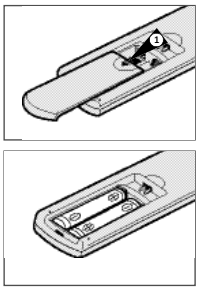
The following buttons are used when watching television via the DVD-VCR's built-in TV tuner.

1	**节目/磁迹跟踪(PROG/TRK) Button** Press to change to the next or previous channel.
2	**0-9 Buttons** Press to select channels directly.
3	**显示(INFO.)** Press to display the channel you are watching. ◆ Also works in DVD and VCR mode.

Inserting Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ◆ ***Purchase the DVD-VCR***
- ◆ ***Find that the remote control is no longer working correctly***



1	Push the tab in the direction of the arrow to release the battery compartment cover on the rear of the remote control.
2	Insert two AAA, RO3 or equivalent batteries, taking care to respect the polarities: ◆ + on the battery with + on the remote control ◆ – on the battery with – on the remote control
3	Replace the cover by aligning it with the base of the remote control and pushing it back into place.

➢ Do not mix different battery types (manganese and alkaline for example).

Setting the Date and Time

Your DVD-VCR contains a 24-hour clock and calendar used to:

- ◆ ***Automatically stop programme recording***
- ◆ ***Preset your DVD-VCR to record a programme automatically***

You must set the date and time when:

- ◆ ***You purchase the DVD-VCR***

☛ ◆ Do not forget to reset the time when you change clocks from winter to summer time and vice versa.

1	After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶. Result: The Setup menu is displayed.
2	Press the corresponding ▲, ▼ buttons to select the **Clock** option.
3	Press the **确定(OK)** or ▶ to select this option. Result: The **Clock Set** menu is displayed.
4	Press ◀ or ▶ to select the hour, minutes, day, month and year. Result: The option selected highlight.
5	Press the ▲ or ▼ buttons to increase or decrease the value. Result: The day of the week is displayed automatically. ➢ You can hold the ▲ or ▼ buttons down to scroll more quickly through the values.
6	On completion, press **返回(RETURN)** to exit the menu.

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VCR Presetting the Stations Automatically

You do not need to preset the stations if you have already set them automatically (see Plug & Auto Set Up on page 13).

Your DVD-VCR contains a built-in tuner used to receive television broadcasts.

You must preset the stations received through the tuner. This can be done:

- ***Plug & Auto Set up (see page 13)***
- ***Automatically***
- ***Manually (see page 19)***

You can store up to 50 stations.

1 After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
Result: The Setup menu is displayed.

2 Press the corresponding ▲, ▼ buttons to select the **Install** option.

3 Press the **确定(OK)** or ▶ to select this option.
Result: The **Install** menu is displayed.

4 Press the corresponding ▲ or ▼ buttons, until the **Auto Setup** is selected.
And then press the **确定(OK)** or ▶ to select this option.
Result: A message appears, indicating that any channels already preset on your DVD-VCR will be deleted.

5 Press **确定(OK)** button.
Result: A message appears, indicating that any channels already preset on your VCR will be deleted.

6 Press **确定(OK)** to start the auto scanning.
Result:
- The **Please Wait** indication highlight on the television screen.
- The first frequency band is scanned and the first station found is displayed and stored.
- The DVD-VCR then searches for the second station and so on.
- When the automatic scanning procedure has finished, the DVD-VCR switches automatically to programme 1.

➢ The number of stations automatically stored by the DVD-VCR depends on the number of stations that it has found.

7 If you wish to cancel the auto scanning before the end, press the **菜单 (MENU)** button to exit the menu.

➢
- Once the auto scanning procedure has finished, some stations may have been stored more than once; select the stations with the best reception and delete the ones no longer required (see page 20).

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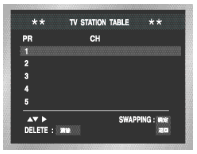
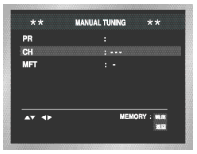
Presetting the Stations Manually

VCR

You do not need to preset the stations manually if you have already set them automatically.

1	After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶. Result: The Setup menu is displayed.
2	Press the corresponding ▲, ▼ buttons to select the **Install** option.
3	Press the **确定(OK)** or ▶ to select this option. Result: The **Install** menu is displayed.
4	Press the corresponding ▲ or ▼ buttons, until the **Manual Setup** option is selected.
5	Press the **确定(OK)** or ▶ to select a **Manual Setup** option. Result: The **TV STATION TABLE** menu is displayed.
6	Press the ▲ or ▼ buttons to select a programme number as required.
7	Press the ▶ button to preset the station. Result: The **MANUAL TUNING** menu is displayed.
8	Press the ◀ or ▶ buttons to start scanning channel. Result: The frequency band is scanned and the first station found is displayed.
9	**If you...** / **Then...**
	Wish to store the station displayed ◆ Press the ▲ or ▼ buttons until the **MFT** is selected. ◆ Press the ◀ or ▶ buttons to adjust the picture, if necessary. ◆ Press **确定(OK)** to store the station
	Do notwish to store the station displayed ◆ Press the ▲ or ▼ buttons until the **CH** is selected. ◆ Press the ◀ or ▶ buttons to go on scanning the frequency band and display the next station ◆ Go back to the beginning of Step **14**
10	Repeat this procedure from Step **6** onwards, until all the required stations have been stored.
11	On completion, press the **返回(RETURN)** button three times to exit the **菜单(MENU)**.





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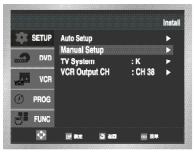
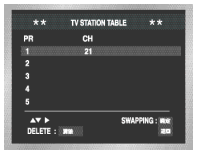
VCR Clearing a Preset Station





If you have stored a TV station:

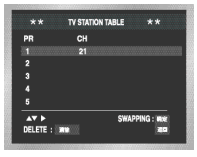
- ***That you do not require***
- ***At the wrong programme position***

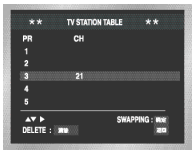
you can cancel it.

1. After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
   Result: The Setup menu is displayed.
2. Press the corresponding ▲, ▼ buttons to select the **Install** option.
3. Press the **确定(OK)** or ▶ to select this option.
   Result: The **Install** menu is displayed.
4. Press the corresponding ▲ or ▼ buttons, until the **Manual Setup** option is selected.
5. Press the **确定(OK)** or ▶ to select a **Manual Setup** option.
   Result: The **TV STATION TABLE** menu is displayed.
6. Press the corresponding ▲ or ▼ buttons, until the required preset TV station (PR) is selected.
7. Press the **清除(CLEAR)** button.
8. Repeat the same procedure from Step **6** onwards until all the required stations have been cleared.
9. On completion, press the **返回(RETURN)** button four times to exit the menu.

Changing the Preset Station Table VCR

You can rearrange the Station Table and give different programme numbers to the stations listed according to your own preferences.





1. After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
   Result: The Setup menu is displayed.
2. Press the corresponding ▲, ▼ buttons to select the **Install** option.
3. Press the **确定(OK)** or ▶ buttons to select this option.
   Result: The **Install** menu is displayed.
4. Press the corresponding ▲ or ▼ buttons, until the **Manual Setup** option is selected.
5. Press the **确定(OK)** or ▶ button to select this option.
   Result: The **TV STATION TABLE** menu is displayed.
6. Press the corresponding ▲ or ▼ buttons, until the required preset TV programme is selected.
   Result: The selected station is displayed at the same time on the television screen.
7. To change the programme number assigned to a station press the **确定(OK)** button on the remote control. (For example, To move a TV station in programme 1 to programme 3)
8. Press the ▲ or ▼ buttons to select required position.
   And then press **确定(OK)** again to swap the position.
9. On completion, press the **返回(RETURN)** button four times to exit the menu.

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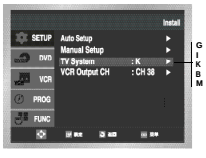
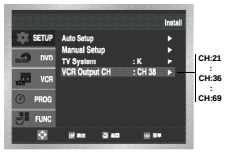
VCR Selecting the RF OUT Sound Mode (G-I-K-B-M)



You can choose the sound mode (G-I-K-B-M) according to the TV set connected to your VCR.

1. After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
   Result: The Setup menu is displayed.
2. Press the corresponding ▲, ▼ buttons to select the **Install** option.
3. Press the **确定(OK)** button to select this option.
   Result: The **Install** menu is displayed.
4. Press the ▲ or ▼ buttons, until the **TV System** option is selected.
5. Press the ◀ or ▶ button to select G, I, K,.B or M.
6. On completion, press **返回(RETURN)** to exit the menu.

VCR Setting the DVD-VCR Output Channel

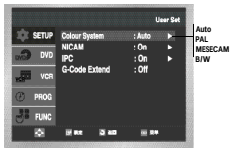


Your DVD-VCR output channel may need to be changed if the pictures suffer from interference or if your TV cannot find the pictures.
Also, you can change the DVD-VCR output channel to adjust the frequency in which information is displayed on the screen.

1. After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
   Result: The Setup menu is displayed.
2. Press the corresponding ▲, ▼ buttons to select the **Install** option.
3. Press the **确定(OK)** or ▶ to select this option.
   Result: The **Install** menu is displayed.
4. Press the ▲ or ▼ buttons, until the **VCR Output CH** option is selected.
5. Select the required output channel (CH21~CH69) by pressing the **确定(OK)** or ▶ buttons.

   CH21 → .. CH36 → .. CH69 → (back to CH21)
6. On completion, press **返回(RETURN)** to exit the menu.
   Then tune your television again (see page 14).

Selecting the Colour Mode VCR



Before recording or playing back a cassette, you can select the required system standard.

➢ ◆ When you playback an NTSC-recorded tape on this DVD-VCR make a setting on the colour system according to your TV. If your TV is a PAL system only TV, set NTPB.
If your TV is Multi System TV (NTSC 4.43 compatible), set NT4.43 and you can record NT4.43.

1. After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
   Result: The Setup menu is displayed.
2. Press the corresponding ▲, ▼ buttons to select the **User Set** option.
3. Press the **确定(OK)** or ▶ to select this option.
   Result: The **User Set** menu is displayed.
4. Press the corresponding ▲ or ▼ buttons, until the **Colour System** option is selected.
5. Press the **确定(OK)** or ▶ button to select **Auto** → **PAL** → **MESECAM** → **B/W**.

B/W	Black and White

6. On completion, press **返回(RETURN)** three time to exit the menu.

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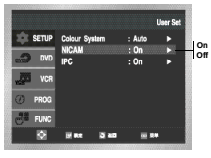
VCR NICAM



NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound. Please refer to page 35.

1. After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
   Result: The Setup menu is displayed.
2. Press the corresponding ▲, ▼ buttons to select the **User Set** option.
3. Press the **确定(OK)** or ▶ to select this option.
   Result: The **User Set** menu is displayed.
4. Press the corresponding ▲ or ▼ buttons, until the **NICAM** option s selected.
5.

To...	Press 确定(OK) or ▶, until...
Mono mode	**Off** is displayed. Off: Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.
NICAM mode	**On** is displayed. On: Normally set at this position.

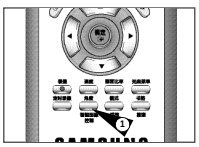
6. On completion, press **返回(RETURN)** three times to exit the menu.

Intelligent Picture Control VCR

The Intelligent Picture Control Feature allows you to adjust the sharpness of the image automatically, according to your own preferences.

1. During playback, press the **菜单(MENU)** button on the remote control.
   Result: The Setup menu is displayed.
2. Press the **确定(OK)** or ▶.
   Result: The Setup menu is displayed.
3. Press the corresponding ▲, ▼ buttons to select the **User Set** option.
4. Press the **确定(OK)** or ▶ buttons to select this option.
   Result: The **User Set** menu is displayed.
5. Press the corresponding ▲ or ▼ buttons, until the **IPC** option is selected.
6. Press the **确定(ok)** or ▶ buttons to select the IPC (intelligent picture control) option.
   ➢ When intelligent picture control mode is **ON**, the sharpness of the image is adjusted automatically.
7. To adjust the sharpness manually, press the ▼ button to turn the IPC mode **OFF**.
8. Press the ◀ or ▶ buttons until the picture is displayed according to your preferences.
   ➢ If you do not press a button within ten seconds, the **PICTURE** menu disappears automatically.
9. On completion, press the **返回(RETURN)** button again.

Intelligent Picture Control (Remote Control) VCR



1. During playback, press the IPC button.
   Result: The **PICTURE** menu is displayed.
2. Press the ▼ button to turn the IPC (Intelligent Picture Control) option **ON** and **OFF**.
   ➢ When Intelligent Picture Control mode is **ON**, the sharpness of the image is adjusted automatically.
3. To adjust the sharpness manually, select Intelligent Picture Control mode **OFF**.
   ◆ The horizontal picture adjusting appears.
4. Press the ◀ or ▶ buttons until the picture is displayed according to your preferences.
   ➢ If you do not press a button within ten seconds, the **PICTURE** menu disappears automatically.
5. On completion, press the IPC button again.

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VCR Auto Power Off

The Auto Power Off feature automatically turns off your DVD-VCR if no signal is received and you do not press any button for the selected time.

1 After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
Result: The Setup menu is displayed.

2 Press the corresponding ▲ or ▼ buttons, until the **Auto Power Off** option is selected.

3 Press the **确定(OK)** or ▶ buttons, until you select the time of Auto Power Off interval.

Off → 1Hour → 2Hour → 3Hour

4 On completion, press **返回(RETURN)** twice to exit the menu.

Screen Messages VCR

Your DVD-VCR displays most information both on the DVD-VCR and the television.
You can choose to display or hide this information on the television screen (except for the SEARCH, Programming MENU and Timer functions, which cannot be hidden).

1 After pressing the **菜单(MENU)**, press the **确定(OK)** or ▶.
Result: The Setup menu is displayed.

2 Press the corresponding ▲ or ▼ buttons, until the **Screen Messages** option is selected.

3 **To... Press 确定(OK) or ▶, until...**

Display on-screen information **On** is displayed.

Hide on-screen information **Off** is displayed.

4 On completion, press **返回(RETURN)** twice to exit the menu.

Selecting the Cassette Type VCR

If you wish to use the tape counter to display the time remaining on a cassette, you must indicate the type of cassette inserted.

1 After pressing the **菜单(MENU)** press the corresponding ▲, ▼ buttons to select the **VCR** option.

2 Press the **确定(OK)** or ▶ buttons to select this option.
Result: The **VCR Setup** menu is displayed.

3 Press the corresponding ▲ or ▼ buttons, until the **Tape Select** option is selected.

4 Press the **确定(OK)** or ▶ buttons as many times as required, until the correct cassette length is displayed.

E180 → E240 → E260 → E 300 → E180

5 Press twice to exit the menu.

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VCR Repeat Play

You can set repeat play to repeat the tape continuously from beginning to end.

1 After pressing the **菜单(MENU)**, press the corresponding ▲, ▼ buttons to select the **VCR** option.

2 Press the **确定(OK)** or ▶ buttons to select this option.
Result: The **VCR Setup** menu is displayed.

3 Press the corresponding ▲ or ▼ buttons, until the **Repeat Play** option is selected.

4

To...	Press 确定(OK) or ▶, until...
Repeat play	**On** is displayed.
Do not wish to repeat play	**Off** is displayed.

5 On completion, press **返回(RETURN)** twice to exit the menu.

VCR S-VHS Play

The DVD-VCR allows you to playback high quality S-VHS tapes.

1 During S-VHSplay mode after pressing the **菜单(MENU)** press the corresponding ▲, ▼ buttons to select the **VCR** option.

2 Press the **确定(OK)** or ▶ button to select this option.
Result: The **VCR Setup** menu is displayed.

3 Press the corresponding ▲ or ▼ buttons, until the **S-VHS** option is selected.

4

To...	Press 确定(OK) or ▶, until...
S-VHS play	**On** is displayed.
Do not wish to S-VHS play	**Off** is displayed.

5 On completion, press **返回(RETURN)** twice to exit the menu.
To watch S-VHS tapes, set the S-VHS mode to **On** in the VCR Setup.

Selecting the Recording Speed VCR

You can record a cassette at two different speeds:

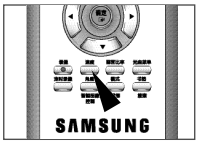
- ***SP (Standard Play)***
- ***LP (Long Play)***

In Long Play modes:

- ***Each cassette lasts twice as long***
- ***The recording is of a slightly lower quality***

To record a cassette...	Press the 速度(SPEED) button on the remote control, until...
In standard play mode	**SP** is displayed.
In long play mode	**LP** is displayed.

Type	Recording Time (in SP)
E-180	180 mins. or 3 hours
E-240	240 mins. or 4 hours
E-260	260 mins. or 4 hours and 20 mins.
E-300	300 mins. or 5 hours



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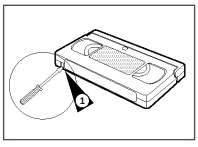
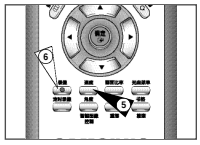
VCR Protecting a Recorded Cassette

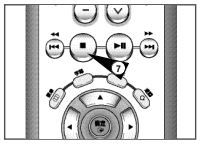


Video cassettes have a safety tab to prevent accidental erasure. When this tab has been removed, you cannot record on the tape.

1. If you wish to protect a cassette, break off the tab using a small screwdriver.
2. To re-record over a protected cassette (safety tab broken), cover the hole with adhesive tape.

VCR Recording a Programme Immediately





Before recording a programme, you must have preset the corresponding station (unless you are recording via an external video source). If you have not done so, refer to pages 18 and 19.

1. Switch on the television.
2. To monitor the programme being recorded, select the television channel reserved for use with your DVD-VCR (or the AV input if used).
3. Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
   Result: The DVD-VCR is switched on automatically.
4. Select:
   - The station to be recorded using the **节目(PROG)** (∧or∨) buttons
     or
   - The LINE source using the **输入选择(INPUT SEL.)** button for a satellite tuner or external video source

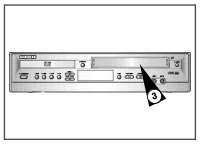
   Result: The station number is displayed and the programme can be seen on the television.
5. Select the recording **speed** by pressing the **速度(SPEED)** button as many times as required (see page 29).
6. Hold **录像(REC)** (●) down for a while to start recording.
   Result: The record indicator appears on the television and DVD-VCR display. An index is recorded on the tape (see page 37).
7. To stop recording, press ■ once.

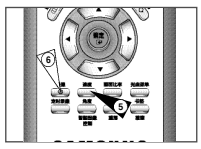
- If your DVD-VCR ejects the cassette when you start recording, check to make sure that the cassette's safety tab is intact or that the opening (created by a broken safety tab) is covered with adhesive tape.
- If you reach the end of the tape while recording, the cassette rewinds automatically.

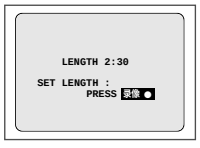
Recording a Programme with Automatic Stop VCR

This function enables you to record up to nine hours (LP) of programmes.

Your DVD-VCR stops automatically after the requested length of time.







1. Switch on the television.
2. To monitor the programme being recorded, select the television channel reserved for use with your DVD-VCR (or the AV input if used).
3. Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
   Result: The DVD-VCR is switched on automatically.
4. Select:
   - The station to be recorded using the **节目(PROG)** (∧or∨) buttons
     or
   - The LINE source using the **输入选择(INPUT SEL.)** button for a satellite tuner or external video source

   Result: The channel number is displayed and the programme can be seen on the television.
5. Select the recording speed by pressing the **速度(SPEED)** button as many times as required (see page 29).
6. Hold the **录像(REC)** button (●) down for a while to start recording.
   Result: The record indicator appears on the television screen and DVD-VCR display. An index is recorded on the tape (see page 37).
7. Press the **录像(REC)** button (●) several times to increase the recording time in:
   - 30-minute intervals up to four hours
   - 1-hour intervals up to nine hours

   Result: The length is displayed on the television displays. The selected programme is recorded for the length of time requested. At the end of that time, the DVD-VCR stops recording automatically and power off.
8. If you wish to cancel the recording before the end, press **待机(STANDBY/ON)**.

If the end of the tape is reached while recording:
- The recording stops and power off.

This function is not available in DVD recording

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VCR Using the Timer Programming Feature

The Timer Programming feature allows you to preset the DVD-VCR to record a programme up to one month before that programme is to be broadcast. Up to six programmes can be preset.

Before presetting a recording, check that the date and time are correct.

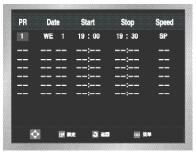
1	Insert the cassette and press **定时录像(TIMER)** on the remote control. Result: The **TIMER PROGRAMMING** menu is displayed.
2	Press ▶ to select the input source.
3	Select the required station by pressing the ▲, ▼ buttons or **输入选择(INPUT SEL.)** to select the LINE input sources.
4	Press ▶ to select the recording day.
5	Select the required day by pressing the ▲ or ▼ buttons.
6	Press ▶ to select the recording start time.
7	Select the required hour value by pressing the ▲ or ▼ buttons.
8	Press ▶ to select the minutes.
9	Select the required minute value by pressing the ▲ or ▼ buttons.
10	Press ▶ to select the recording stop time.
11	Select the required recording stop time by pressing the ▲ or ▼ buttons, following the same procedure as when selecting the recording start time.
12	Press ▶ to select the recording speed.
13	Press the ▲ or ▼ buttons to select the **SP** (Standard Play), **LP** (Long Play), **Auto** (Auto Tape Speed Select) recording speeds.
14	When you have finished, press the **返回(RETURN)** button.
15	Press the **待机(STANDBY/ON)** button to activate the timer. Result: Before starting recording, the DVD-VCR compares the timer duration with the remaining time on the cassette.

Auto Tape Speed Select. The DVD-VCR's "Auto Tape Speed Select" function compares the duration of the timer recording to the actual recording time remaining on the tape loaded. If there is insufficient tape to complete a timer recording in AUTO mode, the DVD-VCR automatically switches to LP mode to record the whole programme.

Checking a Preset Recording VCR

You can check your preset recordings:

- ***When you have finished presetting the DVD-VCR***
- ***If you have forgotten which programmes will be recorded***

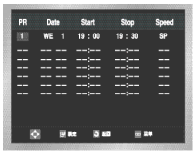


1	Press **定时录像(TIMER)** on the remote control. Result: The **TIMER PROGRAMMING** menu is displayed.
2	Press the ▲ or ▼ buttons to select the required programme.
3	Press the ◀ or ▶ buttons to select and change any values as required. For more details, refer to the previous page.
4	On completion, press **返回(RETURN)** twice.

Cancelling a Preset Recording VCR

You can cancel any programmes that are:

- ***Incorrect***
- ***No longer required***



1	Press **定时录像(TIMER)** on the remote control. Result: The **TIMER PROGRAMMING** menu is displayed.
2	Select the programme to be cancelled by pressing the ▲ or ▼ buttons.
3	Press the **清除(CLEAR)** button to cancel the selected programme. Result: All the recording information is deleted and the broadcast will not be recorded.
4	On completion, press **返回(RETURN)** twice.

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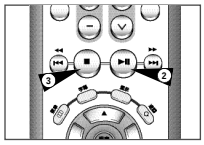
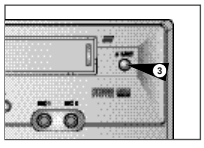
VCR Playing a Cassette





This function allows you to play back any pre-recorded cassette.

1 Switch on both the television and your DVD-VCR.

2 Insert the video cassette to be played. If the safety tab on the cassette is intact, press ▶II.
Otherwise, the cassette is played automatically.

➢ When a cassette is loaded, the tape position is optimized automatically to reduce disturbance (Digital Auto Tracking). When playing a cassette, if the end of the tape is reached, the cassette is rewound automatically.

3

To...	Then press...
Stop the playback	■
Eject the cassette	⏏

VCR Adjusting Picture Alignment Manually

The Picture Adjustment feature allows you to adjust the alignment manually to obtain the best possible picture.

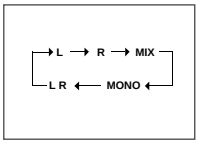
When noise bars or streaks appear during playback, adjust alignment manually by pressing the **磁迹跟踪（TRK）** (∧ or ∨) buttons until the picture is clear and stable.

Result:
- The tracking bar appears.
- The image is adjusted.
- The tracking bar disappears when you release the button.

Selecting the Audio Output Mode VCR

You can select the mode in which the sound is reproduced on the loudspeakers and AV outputs. The following options are available.

Option	Description
L	Used to listen to the sound on the left Hi-Fi channel.
R	Used to listen to the sound on the right Hi-Fi channel.
MIX	Used to listen to the mixed sound of the Hi-Fi and normal channels.
MONO	Used to listen to the sound on the normal mono channel.
L R	Used to listen to Hi-Fi stereo sound on the left and right channels. ➢ When playing back tapes recorded in Hi-Fi, the sound switches to Hi-Fi after five seconds of Mono.



To select the sound mode, simply press the **声音（AUDIO）** button on the remote control until the required option is displayed.

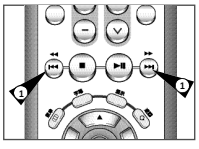
Playing a Cassette in Slow Motion VCR

You can play a cassette in slow motion.

➢ No sound is heard when playing back a cassette in slow motion.

1 Press:
- ▶II to start playing the cassette
- ▶II button one more time to make still mode.
- ▶▶ to start SLOW mode.
- ▶▶ or ◀◀ button as many times as required to decrease or increase the speed respectively
- To **返回(return)** to the normal speed, press the ▶II button twice.

2 When playing back in slow motion, picture interference may occur. Press the **磁迹跟踪（TRK）** (∧ or ∨) buttons to minimize this effect.



☛ When you have been using the Slow Motion function for more than about two minutes, the DVD-VCR will automatically play to protect the:
- Cassette
- Video heads

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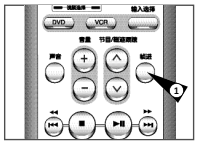
VCR Playing a Sequence Frame by Frame



You can:

- ***Stop the cassette at a given frame (image)***
- ***Advance one frame at a time***

➢ No sound is heard when playing back frame by frame.

1 Press:
- ►II to start playing the cassette
- ►II button one more time to make still mode.
- **帧进（F.ADV/STEP）** to advance frame by frame

2 To **返回(RETURN)** to normal playback, press ►II.

➢ Vertical stability: When playing back frame by frame, interference may be seen on the screen. Press the **磁迹跟踪（TRK）**(∧or ∨) buttons to minimize this effect.

VCR Playing a Sequence at Variable Speeds

You can vary the playback speed using the Shuttle function (up to nine times the normal speed).

Example: ***You wish to analyze a sportsperson's technique, movement by movement.***

The Shuttle function is available on the Remote control

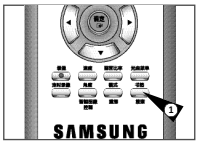
➢ No sound is heard when playing a sequence at variable speeds.

1 Press:
- ►II during playback
- **穿梭（SHUTTLE）** (<<) to play the cassette backwards
- **穿梭（SHUTTLE）** (>>) to play the cassette forwards

2 Each time you press a **穿梭（SHUTTLE）** button, the speed is changed as shown in the following illustration.

REVERSE PLAY X9	REVERSE PLAY X5	REVERSE PLAY X3	RPLAY	STILL	SLOW MOTION X1/3	SLOW MOTION X1/5	PLAY	JPLAY	PLAY X3	PLAY X5	PLAY X9

Searching for a Specific Sequence VCR



Each time you record a cassette on this DVD-VCR, an "index" is automatically marked on the tape when recording starts.

The Search function allows you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows:

	↓			
etc.	*Prev Seq.*	*Seq. being played*	*Next Seq.*	*etc.*
	2 *1*		*1* *2*	

➢ This DVD-VCR uses a standard indexing system (VISS). As a result, it will recognize any indexes marked by other VCRs using the same system and vice versa.

Go To 0:00:00 Stop

Use this feature when you want to search for the 0:00:00 counter position on a cassette. Press the CLEAR button at the point on the tape where you want to set the counter to 0:00:00.
The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.

1 After pressing the SEARCH, press the corresponding ▲ or ▼ buttons, until the **GoTo(0:00:00)** option is selected.

2 Press the **确定(OK)** or ►.

End Search

Use this feature when you want to search for a blank position to record a program on a cassette.
The VCR will fast forward, searching for a blank position, and then automatically stop at that position.If the VCR reaches the end of the tape during end search, the tape will be ejected.

1 After pressing the SEARCH, press the corresponding ▲ or ▼ buttons, until the **EndSearch** option is selected.

2 Press the **确定(OK)** or ►.

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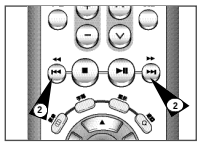
VCR Searching for a Specific Sequence



Intro Scan

1	After pressing the SEARCH, press the corresponding ▲ or ▼ buttons, until the **Intro Scan** option is selected.
2	Press the **确定(OK)** or ▶.
3	Press the ◀◀ or ▶▶ buttons depending on the direction where your desired programme is located.
4	When an Index mark is found the DVD-VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.
5	If you want to watch the tape from a particular Index, simply press ▶II.

Index Skip Search:

This feature will enable you to fast forward/rewind to a specific point on a tape: E.g. if you have recorded 3 different programmes on a tape and you have rewound the tape to the beginning, by using this feature you can go directly to the start of programme 2 simply by pressing the SEARCH button.

1	After pressing the SEARCH, press the corresponding ▲ or ▼ buttons, until the **Intro Scan** option is selected.
2	Press the **确定(OK)** or ▶.
3	Press the ◀◀ or ▶▶ buttons twice more. This will take you directly to the start of the desired programme is located.
4	These Index searches can be made forwards: (press ▶▶) or backwards: (press ◀◀). (◀◀ -20 • • 0 • • +20 ▶▶)
5	To cancel an Index search simply press the ▶II or ■ button.

Using the Tape Counter VCR

The tape counter:

- ***Indicates the elapsed time in the play and record modes (hours, minutes and seconds)***
- ***Is reset when a cassette is inserted in the DVD-VCR***
- ***Allows you to find the beginning of a sequence easily***

If the remaining time is to be calculated correctly, you must indicate the type of cassette being used.

1	Insert a cassette in your DVD-VCR.
2	To set the tape counter to zero at the beginning of a sequence: ◆ Press **显示(INFO.)** twice to display the counter ◆ Press CLEARwhen you want to set the tape counter to zero
3	When you are ready, ◆ Start playback or Recording. ◆ Press the ■ button. ◆ To fast-froward or rewind to the sequence at which the counter was set to zero, press ◀◀ or ▶▶.

Some DVD-VCR information, such as the counter, can be displayed on the television screen (unless you have deactivated the Screen messages mode; refer to page 27).

Press **显示(INFO.)**:

- Once to display the current function, programme number, recording speed, date, time and counter
- Twice to display the counter only
- Three times to display the time remaining on the cassette
- Four times to clear the display

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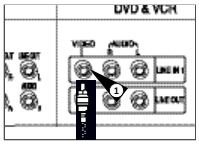
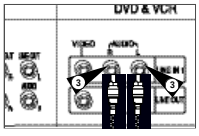
VCR Connecting an RCA Audio/Video Input Cable





You can connect other audio/video equipment to your DVD-VCR using audio/video cables if the appropriate outputs are available on the equipment chosen.

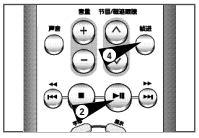
Examples:
- ***You wish to copy a video cassette with the help of a second VCR .***
- ***You wish to play back and/or copy pictures taken with a camcorder .***

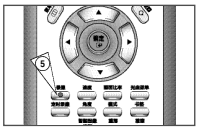
☛
- Make sure that both the television and the DVD-VCR are switched off before connecting the cables.

1	Connect one end of the RCA audio/video cable into the VIDEO INPUT socket on the rear of the DVD-VCR.
2	Plug the other end of the audio/video cable into the appropriate output connector on the other system (VCR or camcorder).
3	Connect one end of the RCA audio cable supplied into the AUDIO INPUT sockets on the rear of the DVD-VCR. ➢ Take care to respect the colour coding of the left and right channels.
4	Plug the other end of the audio cable into the appropriate output connectors on the other system (VCR, camcorder or Hi-Fi sound system).

Using the Assemble Edit Function VCR

This function allows you to start a new recording at a specific position on the cassette while maintaining a very smooth scene change.

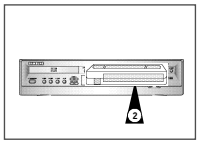


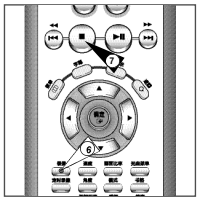


1	Insert the cassette to be edited in your DVD-VCR.
2	Press the ▶II button to start playback.
3	When you reach the position from which you wish to start the new recording, press the ▶II button.
4	Press the **帧进（F.ADV/STEP）** button again as often as necessary to advance frame by frame, until the exact recording position is located.
5	While the DVD-VCR is in still mode, hold the **录像(REC)** button (●) down for a while to activate the Assemble Edit function.
6	Select the source from which you wish to record by pressing: ◆ The **节目(PROG)** (∧or∨) buttons for television channels ◆ The **输入选择(INPUT SEL.)** button for the LINE input sources
7	Press the ▶II button to start recording.
8	When you have finished recording, press ■ .

Recoding from Another VCR or Camcorder VCR

You can copy a cassette to your DVD-VCR from another video source, such as another VCR or a camcorder.





☛ It is an infringement of copyright laws to copy prerecorded cassettes or to re-record them in any form without the permission of the owners of the corresponding copyright.

1	Connect the DVD-VCR, fromwhich the cassette is to be copied, to the appropriate RCA audio and video input connectors on the rear of your DVD-VCR, as indicated on page 11.
2	Insert a blank cassette in your DVD-VCR.
3	Insert the pre-recorded cassette in the other video source (VCR or camcorder).
4	Press the **输入选择(INPUT SEL.)** button to select the appropriate input on your DVD-VCR: LINE IN for the RCA input.
5	Start playing back the cassette to be copied.
6	Hold **录像(REC)** (●) down for a while to start recording on your DVD-VCR.
7	When you have finished recording, press ■ on bothVCR and DVD-VCR.

➢ If you wish to view the cassette being copied:
- Your DVD-VCR must be connected as usual to the television (see page 11 for further details)

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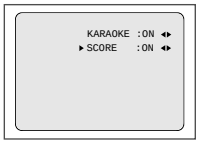
VCR Using the KARAOKE Function

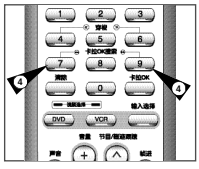
1	Press the **待机(STANDBY/ON)** button and insert KARAOKE tape.
2	Connect Mic into MIC1 or MIC2 jack. Then the KARAOKE mode is transferred "ON" mode. ◆ Disconnect the Mic makes the KARAOKE mode transfer to "OFF" mode automatically. ◆ Press the **卡拉OK（KARAOKE）** button on the remote control. Press the ◂ or ▸ button to select KARAOKE mode "ON".
3	To adjust the Mic volume and ECHO level, press the VOLUME and ECHO ▲ or ▼ keys front pannel.
4	To sing with accompaniment.

VCR SCORE Function



1	Press the **卡拉OK（KARAOKE）** button on the remote control.
2	Press the corresponding ▲ or ▼ buttons to select the SCORE mode.
3	Press the ◂ or ▸ buttons to select the SCORE mode "ON".
4	Score will pop up whenever a song is completed.

VCR KARAOKE SEARCH Function

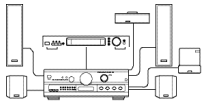


1	Press the **待机(STANDBY/ON)** button and insert KARAOKE tape.
2	Press the **卡拉OK（KARAOKE）** button to turn the KARAOKE mode ON.
3	Press ▶II to start playing the cassette.
4	When you want the next song during playing a song, press the **卡拉 OK搜索（KARAOKE SEARCH）** ▸▸ or **卡拉 OK搜索（KARAOKE SEARCH）** ◂◂ buttons on the remote control.

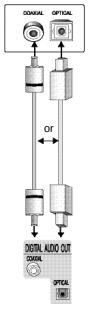
Choosing a Connection DVD

The following show examples of connections commonly used to connect the DVD -VCR player with a TV and other components. It is only available for DVD. The VCR out can not watch by this connection.

Connection to an Audio System



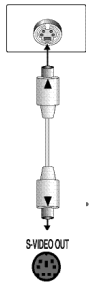
Dolby Digital Decoder
Digital Audio Input Jack



DVD-VCR

Digital Audio out Jack

Connection to an Television



S-Video Jack

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If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.

Using the Disc Menu Language

This function changes the text language only on the disc menu screens.

1	With the unit in Stop mode, press the **菜单(MENU)** button.
2	Select **DVD** using ▲, ▼ buttons, then **确定(OK)** or ▶ button
3	Select **Language Setup** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.
4	Select **Disc Menu** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.
5	Use the ▲, ▼ buttons to select '**English**'. - Select "Others" if the language you want is not listed.
6	Press the **确定(OK)** button. - English is selected and the screen returns to DVD menu.

Using the Audio Language

1	With the unit in Stop mode, press the **菜单(MENU)** button.
2	Select **DVD** using ▲, ▼ buttons, then **确定(OK)** or ▶ button.
3	Select **Language Setup** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.
4	Select **Audio** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.
5	Press the ▲, ▼ buttons to select '**English**' . - Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in. - Select "Others" if the language you want is not listed.
6	Press the **确定(OK)** button. - English is selected and the screen returns to **DVD** menu.

Using the Subtitle Language

1	With the unit in Stop mode, press the **菜单(MENU)** button.
2	Select **DVD** using ▲, ▼ buttons, then **确定(OK)** or ▶ button.
3	Select **Language Setup** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.
4	Select **Subtitle** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.
5	Use the ▲, ▼ buttons to select '**English**'. - Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference. - Select "Others" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.
6	Press the **确定(OK)** button. - English is selected and the screen returns to **DVD** menu.

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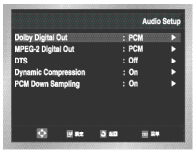
DVD Setting Up the Audio Options



1 With the unit in Stop mode, press the **菜单(MENU)** button.

2 Select **DVD** using ▲, ▼ buttons, then **确定(OK)** or ▶ button.

3 Select **Audio Setup** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.

4 Use the ▲, ▼ buttons to select the desired item. Then press the **确定(OK)** or ▶ button.

- **Dolby Digital Out**

  1. PCM:
  Converts to PCM(2CH) audio.
  Select PCM when using the Analog Audio Outputs.

  2. Bitstream :
  Converts to Dolby Digital Bitstream (5.1CH).
  Select Bitstream when using the Digital Audio Output.

➢ *• Be sure to select the correct Digital Output or no audio will be heard.*

- **MPEG-2 Digital Out**

  1. PCM : Converts to PCM(2CH) audio.
  Select PCM when using the Analog Audio Outputs.

  2. Bitstream : Converts to MPEG-2 Digital Bitstream(5.1CH or 7.1CH).Select Bitstream when using the Digital Audio Output.

- **DTS**

  1. Off : Doesn't output digital signal.
  2. On : Outputs DTS Bitstream via digital output only.
  Select DTS when connecting to a DTS Decoder.

- **Dynamic Compression**

  1. On : To select dynamic compression.
  2. Off : To select the standard range.

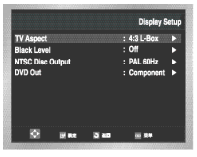
- **PCM Down Sampling**

  1. On : Select this when the amplifier connected to the player is not 96KHz compatible.
  In this case, the 96KHz signals will be down converted to 48KHZ.

  2. Off : Select this when the amplifier connected to the player is 96KHz compatible.
  In this case, all signals will be output without any changes.

➢
- ***How to make the SETUP menu disappear or return to menu screen during set up; Press 返回(RETURN) or ◀ button.***
- ***Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.***
- ***"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.***

Setting Up the Display Options DVD



1 With the unit in Stop mode, press the **菜单(MENU)** button.

2 Select **DVD** using ▲, ▼ buttons, then **确定(OK)** or ▶ button.

3 Select **Display Setup** using ▲, ▼ buttons, then press the **确定(OK)** or ▶ button.

4 Use the ▲, ▼ buttons to select the desired item. Then press the **确定(OK)** or ▶ button.

- **TV Aspect**
  Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).

  1. 4:3 Letter Box :
  Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

  2. 4:3 Pan Scan :
  Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

  3. 16:9 Wide :
  You can view the full 16:9 picture on your widescreen TV.

- **Black Level**
  Adjusts the brightness of the screen.(On/Off)

- **NTSC Disc Output**
  "NTSC" if the screen only has one NTSC-video entrance. If this is not the case, you can choose to leave " PAL 60Hz" as is.

- **DVD Out**
  Component : Sends COMPONENT signal (Y, Pb, Pr) to the component video out JACK.

  S-Video : Sends S-VIDEO signal to the S-VIDEO OUT JACK.

  Video : Sends COMPOSITE VIDEO signal to the Scart JACK.

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DVD Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches.
There are up to 8 rating levels on a disc.

1	With the unit in Stop mode, press the **菜单(MENU)** button.
2	Select **DVD** using ▲,▼ buttons, then **确定(OK)** or ▶ button.
3	Select **Parental Setup** using ▲,▼ buttons, then press the **确定(OK)** or ▶ button.
4	Use **确定(OK)** or ▶ to select **Yes** if you want to use a password. The **Enter Password** screen appears.
5	Enter your password. The **Re-Enter Password** screen appears to confirm the password. **确定(OK)** your password again. The Parental Control screen appears.

- **About the Rating Level** ;
  The Rating Level will work only when **Use Password** is set to Yes. To unlock the player, use ▲,▼ to select No. Use **确定(OK)** or ▶ to select **Rating Level**. Press **确定(OK)**.
  - Use ▲,▼ to select the level(e.g. Level 6) and press **确定(OK)**. Discs that contain Level 7 will now not play.
  - To cancel the rating level, use **确定(OK)** or ▶ to select No in Use Password.

- **About the Change Password** ;
  - Use ▲,▼ to select Change Password. Press **确定(OK)**. The Change Password screen appears.
  - **确定(OK)** your new password. Re-ok the new password again.

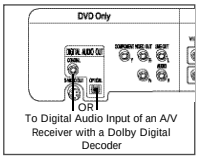
- ***How to make the SETUP menu disappear or return to menu screen during set up; Press 返回(RETURN) or ◀ button.***
- ***If you have forgotten your password, see Forget Password in the Troubleshooting Guide.***

A/V Receiver Connections DVD

To take full advantage of the movie theater experience that DVD offers, you may want to connect your DVD-VCR to a complete Surround Sound system, including an A/V Receiver and six Surround Sound speakers.

Before You Begin...

- ***If your A/V receiver is equipped with a Dolby Digital Decoder, you have the option to bypass the DVD-VCR's built-in Dolby Digital Decoder. Use the DIGITAL AUDIO OUT connection below.***



1 Digital Audio Out
Connect EITHER an optical cable OR a digital coaxial cable from the DIGITAL AUDIO OUTjacks on the back panel of the DVD-VCR to their corresponding Digital Audio Input jacks on your A/V Receiver:

- Optical
- Coaxial
- Use whichever connection is available on your A/V Receiver.

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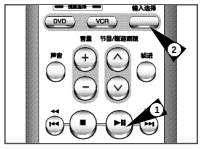

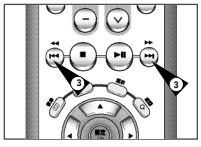

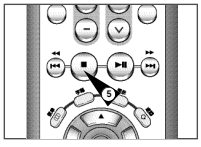

During DVD/CD playback you can select from the following special playback options. To resume normal playback, press the ►II (Play/Still) button.

1 Still

Press the **►II** (Play/Still) button on the remote control during playback.

- The picture will still and the audio will mute.
- To resume playback, press the **►II** (Play/Still) button.
- If the player is left in Still mode for 5 minutes, it will stop automatically.

2 Frame Advance (Step)

While in playback mode, press the **帧进（F.ADV/STEP）** button on the remote control to advance one frame at a time.

- Audio is muted during Frame Advance mode.
- Press **►II** (Play/Still) to resume normal playback.

NOTE: Frame Advance operates only in the forward direction.

3 Skip Forward/Back

While a CD or DVD disc is in Play mode, press the Skip Forward/Back (**►►I** / **I◄◄**) buttons on the remote control or front panel to jump forward and backward through disc chapters/tracks.

- Skip Forward will jump to the next chapter/track.
- Skip Back will jump to the beginning of the current chapter/track.
- Press Skip Back again to jump to the beginning of the previous chapter/track.

Search Forward/Back

While a disc is in Play mode, press and hold the Forward/Back (**►►** / **◄◄**) buttons on the remote control or front panel to visually search forward/backward at 2X - 4X - 8X - 16X - 32X - 128X speed. Press **►II** (Play/Still) button to resume normal speed.

4 Slow Motion

During playback, press the **►II** (Play/Still) button to Still the image. Then use the Search Forward (**►►**) to play in slow motion at variable speeds.

- Each press increases the slow motion speed playback to 1/8, 1/4 or 1/2 normal speed.
- Audio is muted during slow motion playback.

5 Stop/Resume

- Press the Stop button once to stop playback. To resume the DVD/CD from the point where the disc stopped, press the **►II** (Play/Still) button.
- Press the **■** (Stop) button twice to completely stop playback. The next time you press **►II** (Play/Still), the disc will start over from the beginning.

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Adjusting the Aspect Ratio (EZ View) DVD

To play back using aspect ratio (DVD)

1 Press the EZ VIEW button.
- The screen size changes when the button is pressed repeatedly.
- The screen zoom mode operates differently depending on the screen setting in the initial DVD menu.
- To ensure correct operation of the EZ VIEW button, you should set the correct aspect ratio in the initial setup (See page 47).

If you are using a 16:9 TV

For 16:9 aspect ratio discs

- **Wide Screen**
  Displays the content of the DVD title in 16:9 aspect ratio.
- **Screen Fit**
  The top and bottom of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on the type of disc, the black bars may not disappear completely.)
- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- **Normal Wide**
  Displays the content of the DVD title in 16:9 aspect ratio. The picture will look horizontally stretched.
- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.
- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.
- **Vertical Fit**
  When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

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DVD Adjusting the Aspect Ratio (EZ View)

If you are using a 4:3 TV

For 16:9 aspect ratio discs

- **4:3 Letter Box**
  Displays the content of the DVD title in 16:9 aspect ratio.
  The black bars will appear at the top and bottom of the screen.
- **4:3 Pan Scan**
  The left and right of the screen are cut off and displays the central portion of the 16:9 screen.
- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.
- **Zoom Fit**
  When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

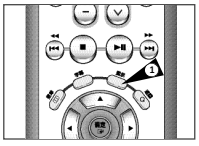
For 4:3 aspect ratio discs

- **Normal Screen**
  Displays the content of the DVD title in 4:3 aspect ratio.
- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture would look vertically stretched.
- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

➢ ***• This function may behave differently depending on the type of disc.***

Using the Display Function DVD

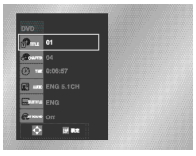
When Playing a DVD/VCD/CD



1. During play, press the **显示(INFO.)** button on the remote.
2. Use the ▲, ▼ buttons to select the desired item.
3. Use the ◀, ▶ buttons to make the desired setup.
   • You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from the desired time.
4. To make the screen disappear, press the **显示(INFO.)** button again.

➢ ***• What is a Chapter?***
Each Title on a DVD is usually divided into chapters (similar to tracks on an audio CD).

• What is a Title?
A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.



TITLE — To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.

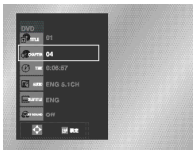
CHAPTER — Most of DVD discs are recorded in chapters so that you can quickly find a specific passage.

TIME — Allows playback of the film from a desired time. You must ok the starting time as a reference.

AUDIO — Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.

SUBTITLE — Refers to the subtitle languages available in the disc. You will be able to choose the subtitles language or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.

3D SOUND — A surround sound effect is generated using only two front speakers.



* When in VCD 2.0 mode (MENU ON mode), this function does not work.

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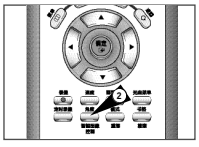
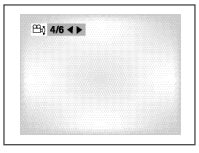
DVD Changing the Camera Angle





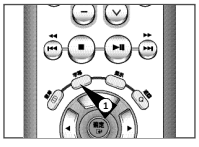
Using the 角度（ANGLE）button

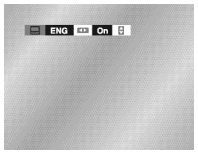
When a DVD contains multiple angles of a particular scene, you can select the Angle function.

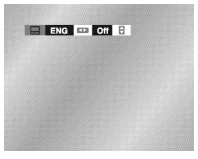
Press the 角度（ANGLE） button to see if an 角度（ANGLE） ( ) mark is present at the upper Right hand corner of the screen.

1	When an **角度（ANGLE）** mark is shown, press the **角度（ANGLE）** button, then an ANGLE select icon will appear at the upper left hand corner of the screen.
2	Use the ◀, ▶ buttons to select the desired screen angle.
3	To turn off the display, press the **角度（ANGLE）** button again.

DVD Selecting the Subtitle Language







You can select a desired subtitle quickly and easily with the 字幕（subtitle） button.

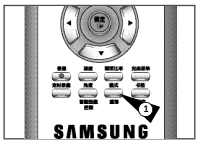
Using the 字幕（SUBTITLE） button

1	Press the **字幕（SUBTITLE）** button.
2	Use the ◀, ▶ buttons to select the desired subtitle language.
3	Use the ▲, ▼ buttons to determine whether or not the subtitle will be displayed. • Initially, the subtitling will not appear on screen. • The subtitle languages are represented by abbreviations.

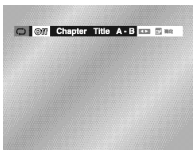
➢ ***• This function depends on what languages are encoded on the disc and may not work with all DVDs.***
• A DVD disc can contain up to 32 subtitle languages.
• How to have the same subtitle language come up whenever you play a DVD; Refer to "Setting Up the Language Features" on page 45.

Repeat Play DVD

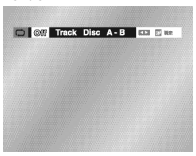
Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.



DVD



VCD / CD



When playing a DVD

1	Press the **重播**(REPEAT) button on the remote. Repeat screen appears.
2	Select Chapter, Title or A-B using the ◀, ▶ buttons. • Press the **重播**(REPEAT) button. Select A-B on screen with the ◀, ▶ buttons. • Press **确定(OK)** at the point where you want the repeat play to start (A). The B is automatically highlighted. • Press **确定(OK)** at the point where you want the repeat play to stop (B). • To terminate the function, press the '**清除(CLEAR)**' button. • A-B REPEAT does not allow you to set point (B) until at least 5 seconds has elapsed after point (A) has been set.
3	Press **确定(OK)**.
4	To return to normal play, press **重播**(REPEAT) again, then press the ◀, ▶ buttons to select Off and press **确定(OK)**. • It is available to press **清除(CLEAR)** button on the remote controller in order to stop **重播**(REPEAT) play.

➢ ***• DVD repeats play by chapter or title, CD and VCD repeat play by disc or track.***
• Depending on the disc, the Repeat function may not work.
• When in VCD 2.0 mode (MENU ON mode), this function does not work.

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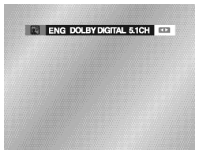
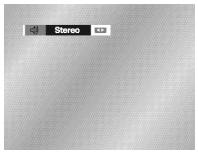
DVD Selecting the Audio Language

DVD



VCD/ CD



You can select a desired language quickly and easily with the 声音 (AUDIO) button.

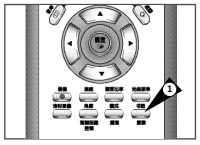
Using the 声音 (Audio) button

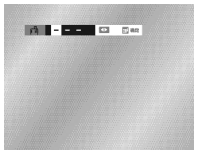
1	Press the **声音 (AUDIO)** button.
2	Use the ◄, ► buttons to select the desired language on a DVD. - The audio languages are represented by abbreviations.
3	Use the ◄, ► buttons to select Stereo, ◄ or ► (On VCD/CD)

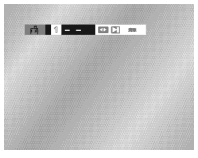
- *This function depends on what languages are encoded on the disc and may not work with all DVDs.*
- *A DVD disc can contain up to 8 audio languages.*
- ***How to have the same audio language come up whenever you play a DVD ;*** *Refer to "Setting Up the Language Features" on page 45.*

Using the Mark Function DVD

This feature lets you mark sections of a DVD or VCD (MENU OFF mode) so you can quickly find them at a later time.







Using the Mark Function (DVD/VCD)

1	During play, press the **书签 (MARK)** button on the remote. The Mark icons will be displayed.
2	Use the ◄, ► buttons to move to the desired Mark icon.
3	When you reach the scene you want to mark, press the **确定(OK)** button. The icon will change to a number (1, 2, or 3).
4	Press the **书签 (MARK)** button to turn off the display.

Recalling a Marked Scene

1	During play, press the **书签 (MARK)** button on the remote.
2	Use the ◄, ► buttons to select a marked scene.
3	Press the PLAY/STILL (**►II**) buttons to skip to the marked scene.

Clearing a Mark

1	During play, press the **书签 (MARK)** button on the remote.
2	Use the ◄, ► buttons to select the mark number you want to delete.
3	Press the **清除(CLEAR)** button to delete a mark number. Press the **书签 (MARK)** button to turn off the display.

- ***Up to three scenes may be marked at a time.***
- When in VCD 2.0 mode (MENU ON mode), this function does not work.
- ***Depending on the disc, the mark function may not work.***

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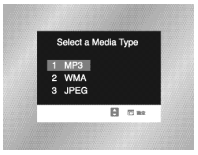

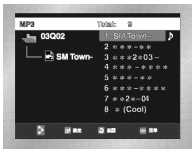

When an MP3/WMA Disc is inserted into the DVD player, the first song file of the first folder plays.

- If more than two file extensions are present, select the media of your choice.
- To change the currently playing media, press the STOP (■) button twice and then press the **光盘菜单（DISC MENU）** button.
- If no button on the remote controller is pressed for 60 seconds, the menu will disappear and the selected item will be played.

MP3/WMA Play Function

1 When the first song file is playing, the music folder menu will appear on the right side of the screen.
Up to 8 music folders can be displayed at a time. If you have more than 8 folders on a disc, press the ◀, ▶ buttons to bring them up on the screen.

2 Use the ▲,▼ buttons to select the desired music folder, then press **确定(OK)**.
Use the ▲,▼ buttons again to select a song file. Press **确定(OK)** to begin playback of the song file.

Program/Random playback

1. Press the **模式（MODE）** button in STOP mode to switch between the RANDOM and PROGRAM modes.

➢
- Press the REPEAT button in Play mode to hear only music continuously and press it once again to release.
- PROGRAM/RANDOM playback cannot be used if the disc contains more than two types of file extensions.

CD-R MP3/WMA discs

When playing CD-R/MP3 or WMA discs, please follow all the recommendations for CD-R above, plus the comments below:

- **Your MP3 or WMA files should be ISO 9660 or JOLIET format.**
  ISO 9660 format and Joliet MP3 or WMA files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. These two formats are the most widely used.
- **When naming your MP3 or WMA files do not exceed 8 characters, and place ".mp3, .wma" as the file extension.**
  General name format of: Title.mp3. or Title.wma. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+).
- **Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.**
  Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality.
  Conversely, files with decompression rates below 128 Kbps will not be played properly.
- **Use a decompression transfer rate of at least 64Kbps when recording WMA files.**
  Sound quality with WMA files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to WMA format, of at least 64Kbps and up to 192Kbps.
  Conversely, files with decompression rates below 64Kbps or over 192Kbps will not be played properly.
- **Do not try recording copyright protected MP3 files.**
  Certain "securized" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You cannot copy such files.
- **Important:** The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality.
  You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).
- This unit can play a maximum of 500 files and 300 folders per disc.

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Program Play & Random Play

Program Play (CD/MP3/WMA)

1. Press the **模式（MODE）** button.
2. Use the ◀, ▶ buttons to select PROGRAM. Press the **确定(OK)** button.
3. Use the ▲, ▼ / ◀, ▶ buttons to select the first track to add to the program.
   Press the **确定(OK)** button. The selection numbers appear in the Program Order box.
4. Press the PLAY/STILL (▶II) button.
   The disc will be played in programmed order.

Random Play (CD/MP3/WMA)

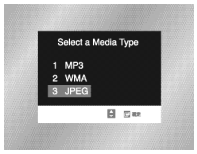
1. Press the **模式（MODE）** button.
2. Use the ◀, ▶ buttons to select RANDOM. Press the **确定(OK)** button. The disc will be played in random order.

- ***Depending on the disc, the Program and Random Play functions may not work.***
- ***To resume normal play, press the 清除(CLEAR) button.***
- ***PROGRAM/RANDOM playback cannot be used if the disc contains more than two types of file extensions.***
- ***This unit can support a maximum of 99 programmed order.***

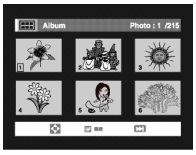
Picture CD Playback

- Select JPEG in the menu to view a Photo CD.
- To change the currently playing media, press the STOP (■) button twice and then press the **光盘菜单（DISC MENU）** button.
- If no button on the remote controller is pressed for 60 seconds, the menu will disappear and the selected item will be played.

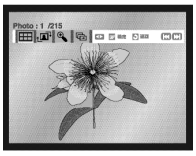
1. Open the disc tray.
2. Load the disc on the tray.
   Load the disc with the labeled side up.
3. Close the tray.
   - The tray closes and you should get a screen that looks like the one below.



- Use the ▲, ▼ or ◀, ▶ buttons on the remote controller to select the picture you want to view and then press the **确定(OK)** button. (Press the PLAY/STILL (▶II) button if you want to play it in the Slide Show mode.)
- To see the next 6 pictures, press the ▶▶I button.
- To see the previous 6 pictures, press the I◀◀ button.



- : Return to the Album Screen.
- : Each time the **确定(OK)** button is pressed, the picture rotates 90 degrees clockwise.
- : Each time the **确定(OK)** button is pressed, the picture is enlarged up to 2X. (Normal → 2X → Normal)
- : The unit enters slide show mode.



*Press the **返回（RETURN）** button to return to the album screen.
*Before the Slide Show can begin, the picture interval must be set.

- : When this icon is selected and **确定(OK)** is pressed, the pictures change automatically with about an 6 second interval.
- : The pictures change automatically with about an 12 second interval.
- : The pictures change automatically with about an 18 second interval.

*Depending on the file size, each interval between images may take longer or shorter than the manual suggests.

- When the banner is being appeared, press the **返回（RETURN）** button to return to the album screen.
- If no buttons on the remote controller pressed for 10 seconds, the menu will disappear.
  Press the ▲, ▼ or ◀, ▶ buttons on the remote controller to display the menu again.

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DVD Picture CD Playback

CD-R JPEG Discs

- Only files with the ".jpg" and ".JPG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- The name of the JPEG file may not be longer than 8 characters and should contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 500 images can be stored on a single CD.
- Only Kodak Picture CDs can be played.
- When playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played.
- Picture discs other than Kodak Picture CD may take longer to start playing or may not play at all.
- If a number of files in 1 Disc is over 500, only 500 JPEG file can be played.
- If a number of folders in 1 Disc is over 300, only JPEG files in 300 folders can be played.

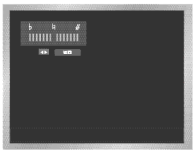
Beginning Karaoke Functions KARAOKE

1	Connect the Mixed Audio Out terminals with the TV or AMP.
2	Press the power button.
3	Connect Mic into Mic 1 or Mic 2 jack. Then the karaoke mode is transferred to ON mode. - To disconnect the Mic makes the karaoke mode transfer to OFF mode automatically.

Key Control KARAOKE

1	Select the "Keycon" using the ◄ or ► buttons.
2	By use of the ◄ or ► buttons, change to the desired tone. - : To let 7 scales down by half scale. - : Original scale. - # : To let 7 scales up by half scale.

➢
- ◆ Key control function is not applied to the Mic output.
- ◆ Key control function can not work at the VCR



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KARAOKE Reserving a Song

It is the function to reserve the desired song in advance by use of Karaoke function.

1	Playback the Karaoke Disc containing the wanted songs.
2	After pressing the **卡拉OK（KARAOKE）** button of the remote transfer to the KARAOKEON mode using the ▲or ▼ buttons.
3	Select the "Request" using the ◀ or ▶ buttons, then press **确定(OK)** button.
4	Input the number (Track No.) of the desired song into the flickering part(--). - You can reserve up to 10 songs.
5	When you want the next reserved song during playing a song, press the ▶▶| button.

KARAOKE Cancellation of reservation

1	Cancel by pressing the **清除(CLEAR)** button of the remote. - The last reserved song will be erased first.
2	Continuous pressing of the **清除(CLEAR)** button can cancel the next reserved song.
3	If the reservation is required again, input the song number in the flickering part.

- ◆ Request function is available only when the Karaoke mode is "ON".
- ◆ When using "▶▶|" button, it can not work at the last song.
- ◆ When using Request function, the "REPEAT" function does not work.
- ◆ If the **清除(CLEAR)** button is pressed when the Request message is not shown on the screen, all the songs on your playlist will be cleared.

Vocal Fader KARAOKE

Pressing the 卡拉OK（KARAOKE） button twice displays the following in Karaoke ON mode:

- The function to make the music only sound by cancelling vocal when playing a Karaoke disc.

VOCAL FADER	Remark
V1	CH1. Vocal Cancel
V2	CH2. Vocal Cancel
V1 V2	CH1, CH2. Vocal Cancel
OFF	Vocal Fader Off

- In VCD, CVD or CD, you can select only the L, R, OFF.

Guide Melody KARAOKE

- ◆ ***To guide melody through xylophone and piano help you sing easily.***
- ◆ ***This function works only on the DVD Karaoke disc on which the guide melody is recorded.***

Score Function KARAOKE

Press 卡拉OK（KARAOKE） button twice to turn the Score Mode On.

- ◆ ***Score will pop up whenever a song is completed.***

Types of Karaoke disc KARAOKE

◆ **DVD Karaoke Disc**

Channel	Karaoke -Channel	5CH. DVD	2CH. DVD
1 CH	L	Left stereo music	Left stereo music + Vocal
2 CH	R	Right stereo music	Right stereo music + Vocal
3 CH	M	Guide melody	-
4 CH	V1	Vocal track	-
5 CH	V2	Vocal track	-

◆ **CVD, VCD Karaoke Disc**

Channel	Karaoke -Channel	CVD	VCD, CD
1 CH	CH1 LEFT	Left stereo music+Vocal	Left stereo music
1 CH	CH1 RIGHT	Right stereo music+Vocal	Right stereo music + Vocal
2 CH	CH2 LEFT	Left stereo music	-
2 CH	CH2 RIGHT	Right stereo music	-

CAUTIONS: Make sure to turn the KARAOKE MODE to OFF to play a movie disc or play in a general mode. If you play a movie disc with the KARAOKE ON , a score will show up every time when a chapter is over.

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Technical Specifications

General	Rated voltage	110 - 240V~, 50/60Hz
	Power consumption	23 Watts
	Weight	3.8 Kg
	Size	430mm X 265mm X 94mm
	Operating ambient temperature	+5°C ~ +35°C
	Installation conditions	Operation position : Horizontal, Relative humidity :Below 75%
Input	Video input (Rear)	RCA jack : 1.0Vp-p (unbalanced) 75Ω
	Audio input (Rear)	RCA jack :-8dBm, 47Kohm unbalanced
	Mic (front)	
Output	RF out	UHF 21-69 (Initial CH38)
	Audio (DVD, VCR)	RCA jack
	Audio (DVD only)	Digital audio out (OPTICAL, COAXIAL)
	Video (DVD, VCR)	RCA jack
	Video (DVD only)	S-Video out COMPONENT out : RCA jack
VCR	Tape format	VHS type video tape, S-VHS type video tape (Playback only)
	Color system	PAL, MESECAM, NT3.58, NTSC4.43, NTSC playback on PAL TV
	Tuning system	B/G, D/K, I, M
	Video S/N	Above 43dB (standard recording)
	Resolution	Above 240 lines (standard recording)
	Audio S/N	Above 68dB (Hi-Fi), 39dB (Mono)
	Audio frequency characteristics	20Hz - 20KHz (Hi-Fi)
DVD	Disc	DVD, CD (12cm), CD(8cm), VIDEO-CD (12cm)
	Audio S/N	95dB
	Audio dynamic range	105dB

Problems and Solutions (VCR)

Before contacting the Samsung after-sales service, perform the following simple checks.

Problem	Explanation/Solution
No power	◆ Check that the power plug is connected to a wall outlet. ◆ Have you pressed the **待机(STANDBY/ON)** button?
You cannot insert a video cassette	◆ A video cassette can only be inserted with the window side up and the safety tab facing you.
The television programme was not recorded	◆ Check the DVD-VCR aerial connections. ◆ Is the DVD-VCR tuner properly set? ◆ Check if the safety tab is intact on the cassette.
Timer recording was unsuccessful	◆ Was the **待机(STANDBY/ON)** button pressed to activate the timer? ◆ Re-check the recording start/stop time settings. ◆ If there was a power failure or interruption during timer recording, the recording will have been cancelled.
No playback picture or the picture is distorted	◆ Check to see if you are using a prerecorded tape.
You cannot see normal broadcasts	◆ Check the TUNER/EXTERNAL setting. It should be on TUNER. ◆ Check the TV/VCR aerial connections.
Noise bars or streaks on playback	◆ Press the **磁迹跟踪（TRK）**（∧or ∨)buttons to minimize this effect.
When the ►II button is pressed during playback, the still picture buttonshas severe “noise bars” streaks	◆ A still picture may have “noise bars”, depending on the condition of the tape. Press the **磁迹跟踪（TRK）**（∧or ∨）during SLOW motion to minimize this effect.
Video Head Cleaning	◆ If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads.
If when tuning in your TV to the DVD-VCR TV does not find the Screen or the pattern when found suffers from interference, it may be due to the DVD-VCR output channel clashing with the normal TV transmissions in your area. To prevent this you will need to change the DVD-VCR output channel in the following way	**1.** Remove the aerial input plug from the socket marked (aerial symbol) on the rear of the DVD-VCR. **2.** Carry out the instructions “Tuning Your Television for the DVD-VCR” (see page 14). **3.** Carry out the instructions “Setting the DVD-VCR output Channel” (see page 22), move the channel number several channels down from the original setting. (example:from 36 to 39). **4.** Replace the aerial plug into the socket marked (aerial symbol) on the rear of the DVD-VCR. **5.** Re-tune your TV to the DVD-VCR again by following instructions “Tuning Your Television for the DVD-VCR” (page 14). **6.** If the problem still exists repeat steps 1 to 5 moving several more channels away from the original setting.

If you are unable to solve the problem after reading the above instructions, note:

- ***The model and serial number on the rear of your DVD-VCR***
- ***The warranty information***
- ***A clear description of the problem***

Then contact your nearest SAMSUNG after-sales service.

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Troubleshooting Guide (DVD)

Before requesting service (troubleshooting)

Problem	Action	Page
Disc does not play.	◆ Ensure that the disc is installed with the label side facing up. ◆ Check the region number of the DVD. ◆ This player cannot play CD-ROMs, DVD-ROMs, etc. Insert a DVD, a VIDEO-CD or a CD.	P6
5.1 channel sound is not being reproduced.	◆ 5.1 channel sound is reproduced only when the following conditions are met. : 1)The DVD-VCR player is connected with the proper amplifier 2) The disc is recorded with 5.1 channel sound. ◆ Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. ◆ Check if your audio system is connected and working properly.	P43 P46
The ⊘ icon appears on screen.	◆ The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	P44-61
Playback mode differs from the Setup Menu selection.	◆ Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P44-48
The screen ratio cannot be changed.	◆ The Screen Ratio is fixed on your DVDs.	P47
No audio.	◆ Make sure you have selected the correct Digital Output in the Audio Options Menu.	P46
Forgot password	◆ Press power on from a cold start with no disc in the unit. Press the ▶▶ and ◀◀ buttons simultaneously on the front panel for five seconds. Press the **菜单 (MENU)** button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press **确定(OK)** and the Create Password display will appear. You can now set your rating level and change your password to a new number.	
If you experience other problems.	◆ Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. ◆ If the problem still cannot be solved, please contact your nearest authorized service center.	

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